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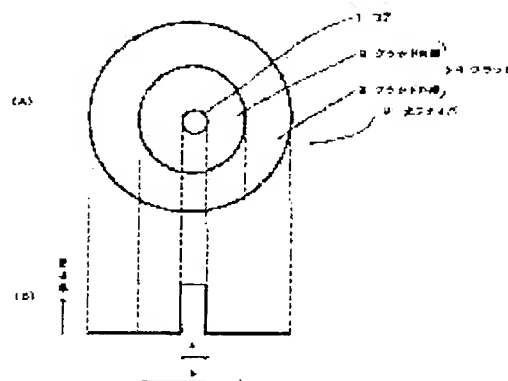
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(54) PHOTOSENSITIVE FIBER

(b)Abstract:

PROBLEM TO BE SOLVED: To suppress the abnormal loss exclusive of a reflection zone occurring in the discordance of a mode field diameter.

SOLUTION: This photosensitive fiber comprises a core 1 and a clad 4 consisting of a clad inner layer 2 deposited around the core 1 and a clad outer layer 3 and is formed with a grating by sensitization at least the core 1. In such a case, the core 1 and the clad inner layer 2 contains a photosensitive dopant for increasing a refractive index and the core 1 contains a nonphotosensitive dopant for increasing the refractive index. The clad inner layer 2 contains a nonphotosensitive dopant for decreasing the refractive index.



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